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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/754,730	01/12/2004	Tien Lei	BHT-3232-7	1357
7590 11/30/2004			EXAMINER	
TROXELL LAW OFFICE PLLC SUITE 1404			JOHNSON, EDWARD M	
5205 LEESBURG PIKE FALLS CHURCH, VA 22041			ART UNIT	PAPER NUMBER
			1754	
			DATE MAILED: 11/30/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary 10/754,730		Application No.	A				
Examiner Examiner Examiner Examiner Examiner Examiner Art Unit Examiner Fried for Reply As HONTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. THE MAILING D			Applicant(s)				
Columb 1764	Office Action Summary		LEI, TIEN				
The MALLING DATE of this communication appears on the cover sheet with the correspondence address. Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION. THE MALLING DATE OF THIS COMMUNICATION. THE MALLING DATE OF THIS COMMUNICATION. If the period for reply a specified above is less than thing (20) days, a reply within the statulary minimum of their (30) days all the considered firmly. If the period for reply a specified shows the manifest of the period for reply and with period and pays and will be considered firmly. If the period for reply a specified shows the manifest of the communication, and the period for reply and will be period as of the communication. Any reply miched by the Office laber than their (20) days, a reply within the statulary minimum on their (30) days all the considered firmly. If the period for reply a specified is the period for reply and will period the pays and days and the period of the pe	- Tourist Garmany		Art Unit				
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This action is FINAL Zb) This action is non-final. 3 This action is FINAL Zb) This action is non-final. 3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.	 Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). 	136(a). In no event, however, may a reply be to bly within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from	timely filed ays will be considered timely. on the mailing date of this communication.				
2a) ☐ This action is FINAL. 2b) ☐ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☐ Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: 'a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.	Status						
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Paper No(s)/Mail Date.) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)				
Illiormation Disclosure Statement(s) (PTO-1449 or PTO/CP/09)	b) Information Disclosure Statement(s) (PTO-1449 or PTO/SP/09)	Paper No(s)/Mail Date 5) ☐ Notice of Informal Pa	ie Itent Application (PTO-152)				
6) Other:	Paper No(s)/Mail Date B. Patent and Trademark Office	6) Other:	11 (1 10-102)				

Application/Control Number: 10/754,730

Art Unit: 1754

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35
 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gabriel US 6,361,706 in view of Stearns et al. US 6,277,347.

Regarding claims 1, 7, and 13, Gabriel '706 discloses a method for reducing PFC gas in exhaust comprising channeling into a plasma device, introducing a gas containing water vapor to produce HF as a water abatement reaction product (see abstract and column 5, lines 1-12), and scrubbing (see Figure).

Gabriel fails to disclose removal of fine solid molecules.

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Stearns '347 discloses filtering (see column 7, lines 38-42 and column 10, lines 17-18).

It is considered that it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the filtering of Stearns in the PFC reduction process of Gabriel because Stearns discloses the filtering in a PFC process (see abstract) that may reduce the number of components required in the substrate processing system (see column 10, lines 10-16).

Regarding claims 2-3, 6, 8-9, 12, and 14-16, Gabriel '706 discloses instant plasma tank injection and evaporation (see column 5, lines 15-38), which would obviously, to one of ordinary skill, cause at least some cooling.

Regarding claims 4-5 and 10-11, Stearns '347 discloses further adding air (see column 6, lines 53-55) and a plurality of valves (see Figures and column 5, lines 4-24).

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kesari et al. US 6,540,930 discloses a method of reducing perfluoroketones using a vapor reactor comprising treatment with plasma and water vapor (see abstract and Examples); Cheung et al. US 6,187,072 discloses a method for reducing perfluorocompound gases

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comprising treatment with plasma and water, and a particle trapping and collection system (see abstract and Examples).

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward M. Johnson whose telephone number is 571-272-1352. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley S. Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GMAN.